

INTERNATIONAL SEARCH REPORT

International Application No

PCT 03/10841

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D317/38 C11D1/83 C11D1/66

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D C11D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 116 751 A (TEIJIN LTD) 18 July 2001 (2001-07-18) page 3, line 20 - line 36 page 9, line 14 - line 56 ---	1-4
X	US 4 341 905 A (STREGE PAUL E) 27 July 1982 (1982-07-27) Spalten 5 bis 8, Carbonate der Beispiele 40, 41, 44, 45, 48, 49 ---	1, 2, 4
X	WO 01 52340 A (CHUNG JAE SIK; KIM HYEONG JIN (KR); LG CHEMICAL LTD (KR); YOO SEUN) 19 July 2001 (2001-07-19) Seite 7, Schema 1, "4-allyloxymethyl-1,3- dioxolan-2-one" --- -/--	1, 2, 4



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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Date of the actual completion of the international search

27 February 2004

Date of mailing of the international search report

05/03/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Hass, C

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PCT 03/10841

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 447 952 B1 (ADAMIC KRESIMIR ET AL) 10 September 2002 (2002-09-10) column 19 -column 22 ---	1,2,4
X	PATENT ABSTRACTS OF JAPAN vol. 011, no. 332 (C-455), 29 October 1987 (1987-10-29) & JP 62 114985 A (NEOS CO LTD), 26 May 1987 (1987-05-26) abstract ---	1,2,4
X	EP 1 070 733 A (CHEMONOL LTD; POLYMATE LTD (IL)) 24 January 2001 (2001-01-24) page 16, line 5 A page 16, line 35 - line 45 ---	1,4 1,2
X	DE 21 59 991 A (DYNAMIT NOBEL AG) 14 June 1973 (1973-06-14) claim 1 ---	1,4
X	DE 23 44 197 A (DYNAMIT NOBEL AG) 27 March 1975 (1975-03-27) Seite 9, die letzten drei Verbindungen ---	1,4
X	DE 17 69 119 A (HOECHST AG) 16 June 1971 (1971-06-16) Seite 6, Verbindung C ---	1,4
X	WO 01 30930 A (FRANCES JEAN MARC; WHITE JOHN (FR); GUYOT CHRISTOPHE (FR); RHONE P) 3 May 2001 (2001-05-03) page 14, line 5 ---	1,4
A	WO 98 00418 A (COLGATE PALMOLIVE CO) 8 January 1998 (1998-01-08) cited in the application page 3, line 3 - line 20; claims 1,3,11 ---	1,8,9, 12-19
A	WO 97 04059 A (COLGATE PALMOLIVE CO) 6 February 1997 (1997-02-06) cited in the application page 12, line 11 - line 20 page 16, line 25 -page 17, line 2; claim 1 ---	1,12-19
A	WO 97 19159 A (BASF AG; BAUR RICHARD (DE); EHLE BEATE (DE); GREINDL THOMAS (DE);) 29 May 1997 (1997-05-29) cited in the application -----	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/10841

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1116751	A	18-07-2001	EP 1116751 A1 US 6407199 B1 CN 1319123 T WO 0073387 A1	18-07-2001 18-06-2002 24-10-2001 07-12-2000
US 4341905	A	27-07-1982	NONE	
WO 0152340	A	19-07-2001	KR 2001068820 A CN 1358337 T EP 1173899 A1 JP 2003520211 T WO 0152340 A1 TW 499774 B US 2003087162 A1	23-07-2001 10-07-2002 23-01-2002 02-07-2003 19-07-2001 21-08-2002 08-05-2003
US 6447952	B1	10-09-2002	NONE	
JP 62114985	A	26-05-1987	JP 1841270 C JP 5052315 B	25-04-1994 05-08-1993
EP 1070733	A	24-01-2001	EP 1070733 A1	24-01-2001
DE 2159991	A	14-06-1973	DE 2159991 A1 CH 575426 A5 FR 2162115 A1 GB 1364199 A JP 50040533 A US 3825567 A US 3932464 A US 4213908 A	14-06-1973 14-05-1976 13-07-1973 21-08-1974 14-04-1975 23-07-1974 13-01-1976 22-07-1980
DE 2344197	A	27-03-1975	DE 2344197 A1 FR 2242483 A1 GB 1489242 A GB 1489243 A GB 1489244 A GB 1489245 A GB 1489246 A GB 1489247 A GB 1489241 A JP 50051435 A NL 7411567 A US 4029679 A US 4048374 A	27-03-1975 28-03-1975 19-10-1977 19-10-1977 19-10-1977 19-10-1977 19-10-1977 19-10-1977 19-10-1977 08-05-1975 04-03-1975 14-06-1977 13-09-1977
DE 1769119	A	16-06-1971	DE 1769119 A1 AT 295147 B BE 731171 A FR 2005715 A5 GB 1228490 A NL 6904644 A US 3578623 A	16-06-1971 27-12-1971 08-10-1969 12-12-1969 15-04-1971 08-10-1969 11-05-1971
WO 0130930	A	03-05-2001	FR 2800383 A1 AU 1283901 A CA 2389015 A1 EP 1242551 A1 WO 0130930 A1	04-05-2001 08-05-2001 03-05-2001 25-09-2002 03-05-2001

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP03/10841

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0130930	A	JP 2003513142 T	08-04-2003
WO 9800418	A	08-01-1998	US 5733860 A 31-03-1998
			AU 3388197 A 21-01-1998
			WO 9800418 A1 08-01-1998
WO 9704059	A	06-02-1997	AU 706433 B2 17-06-1999
			AU 6498196 A 18-02-1997
			BR 9609727 A 16-03-1999
			CA 2227315 A1 06-02-1997
			EP 0839177 A1 06-05-1998
			EP 0987319 A2 22-03-2000
			PL 324624 A1 08-06-1998
			WO 9704059 A1 06-02-1997
			US 5770554 A 23-06-1998
			ZA 9606124 A 19-01-1998
WO 9719159	A	29-05-1997	DE 19543162 A1 22-05-1997
			AT 201439 T 15-06-2001
			AU 7564996 A 11-06-1997
			DE 59606967 D1 28-06-2001
			WO 9719159 A1 29-05-1997
			EP 0863976 A1 16-09-1998
			ES 2157465 T3 16-08-2001
			JP 2000500519 T 18-01-2000
			US 5994290 A 30-11-1999